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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,147	02/26/2004	Tatsuro Juri	033216M0171	1960

441 7590 05/09/2005

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EXAMINER

ALAVI, AMIR

ART UNIT PAPER NUMBER

2621

DATE MAILED: 05/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/786,147	Applicant(s) JURI ET AL.	
	Examiner Amir Alavi	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 February 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 118-134 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 118-134 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☒ Certified copies of the priority documents have been received in Application No. 09/380,794.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>20040226</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- Claims 118-134 are rejected under 35 U.S.C. 101 because, they are directed to Non-Statutory Subject Matter. These claims are neither Functional Descriptive Material, nor Non-functional Descriptive Material, they disclose an arithmetic method and apparatus for coding input image data in a predetermined signal format by dividing said image data into block units and by carrying out orthogonal transform in said block units or for subjecting coded data to inverse orthogonal transform and signal format conversion to obtain image data for decoding, this kind of claim language constitutes the intended use, furthermore, wherein, output

value Y_0 , i.e., $X_0 + X_1$, and output value Y_1 , i.e., $X_0 - X_1$, are generated from two input values X_0 and X_1 by an orthogonal transform or an inverse orthogonal transform, these algorithms merely Manipulate Data without appropriate subject matter and thus cannot constitute a statutory process, they do not represent any physical objects or activities to achieve a practical application, they solve a purely mathematical problem, by utilizing an addition step for adding said X_0 to said X_1 to generate new X_1 , a twice value generating step for generating a new X_0 being twice the value of said X_0 and a subtraction step for subtracting said new X_1 from said new X_0 to generate newer X_0 , without any limitation to a practical application. The dependent claims, basically perform addition, multiplication and shifting.

Other prior art cited

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Langdon, Jr. et al. (USPN 4,905,297) is pertinent as teaching arithmetic coding encoder and decoder system.

Hongu (USPN 5,555,323) is pertinent as teaching system for Bi-level symbol coding/decoding with saved storage and method for same.

Leeder et al. (USPN 6,757,439 B2) is pertinent as teaching JPEG packed block structure.

Feder et al. (USPN 6,785,425 B1) is pertinent as teaching method and system for compression of images.

Nakayama (USPN 6,865,299 B1) is pertinent as teaching method of performing variable length coding for a multilevel image with simple processing.

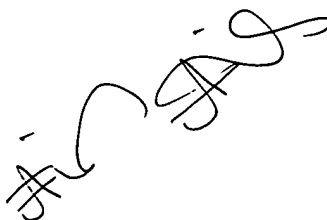
Katata et al. (USPN 5,631,644) is pertinent as teaching image encoding apparatus.

Balkanski et al. (USPN 5,270,832) is pertinent as teaching system for compression and decompression of video data using discrete cosine transform and coding techniques.

Contact Information

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amir Alavi whose telephone number is 571-272-7386.
- The examiner can normally be reached on Mon-Thu.. 8:00 am thru 6:30pm.If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Bhavesh Mehta can be reached on 571-272-7453.
- The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.
- For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AA
Group Art Unit 2621
25 April 2005

A handwritten signature in black ink, appearing to be 'J. Alavi', is written diagonally across the bottom right of the page.